

## REMARKS

Claims 1-12 are currently active.

Claims 1 and 12 have been amended. Antecedent support for the amendments is found on page 7, line 18.

The Examiner has objected to the specification. The specification has been amended to obviate the objections.

The Examiner has rejected Claims 1 and 12 as being anticipated by Ye and Lewis. Applicant respectfully traverses this rejection in view the amendments to the claims. Claims 1 and 12 now have the limitation "so that each 3 dimensional evaluation requires only one clock cycle" and the geometric space is  $R^3$ . Ye and Lewis does not teach or suggest these limitations. Ye and Lewis teach that a system based on the prior art Perlin noise function which the claimed invention improves upon is not based on a point in  $R^3$  space. The Examiner states Ye and Lewis teach this but applicant cannot find this teaching. In addition, Ye and Lewis fail to teach "so that each 3 dimensional evaluation requires only one clock cycle". Accordingly, Claims 1 and 12 are patentable over Ye and Lewis.

The Examiner has rejected Claims 2-11 as being unpatentable over Ye and Lewis. Claims 2-11 are dependent to parent Claim 1 and are patentable for the reasons Claim 1 is patentable.

In view of the foregoing amendments and remarks, it is respectfully requested that the outstanding rejections and objections to this application be reconsidered and withdrawn, and Claims 1-12, now in this application be allowed.

Respectfully submitted,

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I hereby certify that the correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231,  
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3/9/04

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